

>AF263835 ACCESSION:AF263835 NID: gi 8132996 gb AF263835.1 AF263835
Homo sapiens voltage-gated potassium channel KCNQ5
(KCNQ5) mRNA, partial cds
Length = 2832

Score = 1688 bits (4323), Expect = 0.0
Identities = 846/861 (98%), Positives = 849/861 (98%), Gaps = 9/861 (1%)
Frame = +1

Query: 72 GGGLRESRRGKQGARMSLLGKPLSYTSSQSCRRNVYRRVQNYLYNVLERPRGWAFIYHA 131
GGGLRESRRGKQGARMSLLGKPLSYTSSQSCRRNVYRRVQNYLYNVLERPRGWAFI+HA
Sbjct: 1 GGGLRESRRGKQGARMSLLGKPLSYTSSQSCRRNVYRRVQNYLYNVLERPRGWAFIHHA 180

Query: 132 FVFLLVFGCLILSVFSTIPEHTKLASSCLILEFVMIVVFGLEIFIIRIWSAGCCCRYRGW 191
FVFLLVFGCLILSVFSTIPEHTKLASSCLILEFVMIVVFGLEIFIIRIWSAGCCCRYRGW
Sbjct: 181 FVFLLVFGCLILSVFSTIPEHTKLASSCLILEFVMIVVFGLEIFIIRIWSAGCCCRYRGW 360

Query: 192 QGRLRFARKPFCVIDTIVLIASIAAVVSAKTQGNIFATSALRSLRFLQILRMVRMDRRGGT 251
QGRLRFARKPFCVIDTIVLIASIAAVVSAKTQGNIFATSALRSLRFLQILRMVRMDRRGGT
Sbjct: 361 QGRLRFARKPFCVIDTIVLIASIAAVVSAKTQGNIFATSALRSLRFLQILRMVRMDRRGGT 540

Query: 252 WKLLGSVVVAHSKELITAWYIGFLVLIFSSFLVYLVEKDANKEFSTYADALWWGTITLTT 311
WKLLGSVVVAHSKELITAWYIGFLVLIFSSFLVYLVEKDANKEFSTYADALWWGTITLTT
Sbjct: 541 WKLLGSVVVAHSKELITAWYIGFLVLIFSSFLVYLVEKDANKEFSTYADALWWGTITLTT 720

Query: 312 IGYGDKTPLTWLGRLLSAGFALLGISFFALPAGILGSGFALKVQEQRHRQKHFEKRRNPAA 371
IGYGDKTPLTWLGRLLSAGFALLGISFFALPAGILGSGFALKVQEQRHRQKHFEKRRNPAA
Sbjct: 721 IGYGDKTPLTWLGRLLSAGFALLGISFFALPAGILGSGFALKVQEQRHRQKHFEKRRNPAA 900

Query: 372 NLIQCVWRSYAADEKSVSIATWKPHLKALHTCSPT-----NQKLSFKERVRMASPR 422
NLIQCVWRSYAADEKSVSIATWKPHLKALHTCSPT +QKLSFKERVRMASPR
Sbjct: 901 NLIQCVWRSYAADEKSVSIATWKPHLKALHTCSPTKEQGEASSSQKLSFKERVRMASPR 1080

Query: 423 GOSIKSRQASVGDRRSPSTDITAEGSPTKVQKSWSFNDRTFRPSLRLKSSQPKVIDAD 482
GOSIKSRQASVGDRRSPSTDITAEGSPTKVQKSWSFNDRTFRPSLRLKSSQPKVIDAD
Sbjct: 1081GOSIKSRQASVGDRRSPSTDITAEGSPTKVQKSWSFNDRTFRPSLRLKSSQPKVIDAD 1260

Query: 483 TALGTDDVYDEKGQCQCDVSVEDLTPLKTVIRAIRIMKFHVAKRKFKETLRPYDVKDIE 542
TALGTDDVYDEKGQCQCDVSVEDLTPLKTVIRAIRIMKFHVAKRKFKETLRPYDVKDIE
Sbjct: 1261TALGTDDVYDEKGQCQCDVSVEDLTPLKTVIRAIRIMKFHVAKRKFKETLRPYDVKDIE 1440

Query: 543 QYSAGHLDMLCRIKSLQTRVDQILGKGQITSDDKSREKITAEHETTDDLSMLGRVVKVEK 602
QYSAGHLDMLCRIKSLQTRVDQILGKGQITSDDKSREKITAEHETTDDLSMLGRVVKVEK
Sbjct: 1441QYSAGHLDMLCRIKSLQTRVDQILGKGQITSDDKSREKITAEHETTDDLSMLGRVVKVEK 1620

Query: 603 QVQSIESKLDCLLDIYQQVLRKGSSALALASFQIPPFECQTSYQSPVDSKDLGSAQ 662
QVQSIESKLDCLLDIYQQVLRKGSSALALASFQIPPFECQTSYQSPVDSKDLGSAQ
Sbjct: 1621QVQSIESKLDCLLDIYQQVLRKGSSALALASFQIPPFECQTSYQSPVDSKDLGSAQ 1800

Query: 663 NSGCLSRSTSANISRGLQFILTPNEFSAQTFYALSPTMHSQATQVPISQSDGSAVATNT 722
NSGCLSRSTSANISRGLQFILTPNEFSAQTFYALSPTMHSQATQVPISQSDGSAV ATNT
Sbjct: 1801NSGCLSRSTSANISRGLQFILTPNEFSAQTFYALSPTMHSQATQVPISQSDGSAVATNT 1980

Query: 723 IANQINTAPKPAAPTTLQIPPLPAIKHLPRPETLHPNPAGLQESISDVTCLVASKENV 782
IANQINTAPKPAAPTTLQIPPLPAIKHLPRPETLHPNPAGLQESISDVTCLVASKENV
Sbjct: 1981IANQINTAPKPAAPTTLQIPPLPAIKHLPRPETLHPNPAGLQESISDVTCLVASKENV 2160

Query: 783 QVAQSNLTKDRSMRKSFDMGGETLLSVCMPVKDLGKSLSVQNLIRSTEELNIQLSGSES 842
QVAQSNL KDRSMRKSFDMGGETLLSVCMPVKDLGKSLSVQNLIRSTEELNIQLSGSES
Sbjct: 2161QVAQSNLPKDRSMRKSFDMGGETLLSVCMPVKDLGKSLSVQNLIRSTEELNIQLSGSES 2340

Query: 843 SGSRGSQDFYPKWRESKLFITDEEVGPEETETDTFDAAPQPAREAAFASDSLRTGRSRSS 902
SGSRG QDFYPKWRESKLFITDEEVGPEETETDTFDAAPQPAREAAFASDSLRTGRS+SS
Sbjct: 2341SGSRGRQDFYPKWRESKLFITDEEVGPEETETDTFDAAPQPAREAAFASDSLRTGRSQSS 2520

Query: 903 QSICKAGESTDALSLPHVKLK 923
QSICKAGESTDALSLPHVKLK
Sbjct: 2521QSICKAGESTDALSLPHVKLK 2583

The screenshot shows the NCBI Nucleotide search interface. At the top, there's a navigation bar with links to PubMed, Nucleotide, Protein, Genome, Structure, PMC, Taxonomy, OMIM, and Books. Below the navigation bar is a search bar with dropdown menus for 'Search' (set to 'Nucleotide') and 'for'. To the right of the search bar are buttons for 'Go' and 'Clear'. Underneath the search bar are several tabs: 'Limits', 'Preview/Index', 'History', 'Clipboard', 'Details', 'Display' (set to 'default'), 'Show: 20', 'Send to', 'File', 'Get Subsequence', and 'Features'. On the far right, there's a 'Links' button.

1: AF263835. Homo sapiens volt...[gi:8132996]

LOCUS AF263835 2832 bp mRNA linear PRI 01-JUN-2000
 DEFINITION Homo sapiens voltage-gated potassium channel KCNQ5 (KCNQ5) mRNA, partial cds.
 ACCESSION AF263835
 VERSION AF263835.1 GI:8132996
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 2832)
 AUTHORS Kniazeva, M. and Han, M.
 TITLE A new gene of the voltage-gated potassium channel KCNQ family, KCNQ5, is a candidate gene for retinal disorders
 JOURNAL Unpublished
 REFERENCE 2 (bases 1 to 2832)
 AUTHORS Kniazeva, M. and Han, M.
 TITLE Direct Submission
 JOURNAL Submitted (04-MAY-2000) MCDB, University of Colorado at Boulder, Porter Biosciences Bldg., Boulder, CO 80309, USA
 FEATURES Location/Qualifiers
 source 1..2832
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /chromosome="6"
 /map="6q; D6S280"
 /tissue_type="brain; retina"
 gene <1..2832
 /gene="KCNQ5"
 CDS <1..2586
 /gene="KCNQ5"
 /note="member of the KCNQ family"
 /codon_start=1
 /product="voltage-gated potassium channel KCNQ5"
 /protein_id="AAF73446.1"
 /db_xref="GI:8132997"
 /translation="GGGLRESRRGKQGARMSLLGKPLSYTSSQSCRNVKYRRVQNYLYNVLERPRGWAFIHAFVFLLVFGCLILSVFSTIPEHTKLASSCLLILEFVMIVVFGLEFIIRIWSAGCCCRYRGWQGRRLRFARKPFCVIDTIVLIASIAVVSAKTQGNIFATSALRSLRFLQILRMVRMDRRGGTWKLLGSVVAHSKELITAWYIGFLVLIFSSFLVYLVKEKDANKEFSTYADALWWGTITLTTIGYGDKTPLTWLGRLLSAGFALLGISFFALPAGILSGFALKVQEQRQKHFEKRRNPAANLIQCVWRSYADEKSVSIAWTKPHLKALHTCSPTKKEQGEASSSQKLSFKERVRMASPRGQSIIKSQRQASVGDRSPSTDITAEGSPTKVQKTSWSFNDRTRFRPSLRLKSSQPKPVIDADTALGTTDDVYDEKGQCDSVEDLTPPLKTVIRAIRIMKFHVAKRKFKETLRPYDVKDVICEQYSAGHLDMLCRIKSLQTRVDQILGKGQITSDKKSRREKITAEHETTDLSMLGRVVKVEKQVQSIESTKLDCLLDIYQQVLRKGSA"

ALALASFQIPPFCEQTSYQSPVDSKDLGSAQNSGCLSRSTSANISRGLQFILTPN
 EFSAQTFYALSPTMHSQATQVPISQSDGSAVVATNTIANQINTAPKPAAPTLQIPPP
 LPAIKHLPRPETLHPNPAGLQESISDVTCLVASKENVQVAQSNLPKDRSMRKSFDMG
 GETLLSVCMPVKDLGKSLSVQNLIRSTEELNIQLSGSESSGSRGRQDFYPKWRESKL
 FITDEEVGPEETEDTDFDAAPQPAREAAFASDSLRTGRSQSSQSICKAGESTDALSLP
 HVKLK"

BASE COUNT 783 a 685 c 663 g 701 t

ORIGIN

1 ggcgggtggcc tgagggagag ccgccccggc aagcaggggg cccggatgag cctgctgggg
 61 aagccgctct cttacacgag tagccagagc tgccggcgca acgtcaagta ccggcggtg
 121 cagaactacc tgtacaacgt gctggagaga ccccgccgct gggcgttcat ccaccacgct
 181 ttcgttttc tccttgttctt tggttgctt attttgtcag tggtttctac catccctgag
 241 cacacaaaat tggcctcaag ttgcctctt atcctggagt tcgtgatgat tgcgtctt
 301 gtttggagt tcatcattcg aatctggct gcggggtgct gttgtcgata tagaggatgg
 361 caaggaagac tgaggttgc tcgaaagccc ttttgttta tagataccat tgttttatc
 421 gcttcaatag cagtttttc tgcaaaaaact caggtaata ttttgccac gtctgcactc
 481 agaagtctcc gtttccata gatcctccgc atggtgcgca tggaccgaag gggaggcact
 541 tggaaattac tgggttcaagt ggtttatgct cacagcaagg aattaatcac agcttggta
 601 ataggattt tggtttttat ttttgcgtct ttccttgtt atctggtgta aaaggatgcc
 661 aataaaagagt tttctacata tgcagatgct ctctgggg gcacaattac attgacaact
 721 attggctatg gagacaaaac tcccctaact tggctggaa gattgttttc tgcaggctt
 781 gcactccttgc cattttctt cttgcactt cctggccgca ttcttggtc aggttttgc
 841 taaaaggta aagaacaaca cggccagaaa cactttgaga aaagaaggaa cccagctgcc
 901 aacctcattt cgtgttttgc gcttagttac gcagctgatg agaaatctgt ttccattgca
 961 acctggaagc cacacttcaa ggccttgcac acctgcagcc ctaccaagaa agaacaaggg
 1021 gaagcatcaa gcagtcaaaa gctaagttt aaggagcgag tgcgcattggc tagccccagg
 1081 gcccagagta ttaagagccg acaaggctca gtaggtgaca ggaggtcccc aagcaccgac
 1141 atcacagccg agggcagtcc caccaaatgt cagaagagct ggagcttcaa cgaccgaacc
 1201 cgcttccggc cctcgctgcg cctcaaaaatgt tctcagccaa aaccagtgtat agatgtgac
 1261 acagcccttgc actgtatgtat gaaaaaggat gccagtgtga tgcgtatcgt
 1321 gaagacactca ccccaccaact taaaactgtc attcgagcta tcagaattat gaaatttcat
 1381 gttgcaaaaac ggaagttaa ggaacatcta cgtccatatg atgtaaaaga tgcattgaa
 1441 caatattctg ctggcatctt ggacatgtt gttttttttttaaaatgtt aacacgttt
 1501 gatcaaattt ttggaaaagg gcaaatcaca tcagataaga agagccgaga gaaaataaca
 1561 gcagaacatg agaccacaga cgatctcagt atgctcggtc ggggtgtcaa ggttggaaaa
 1621 caggtacatg ccatagaatc caagctggac tgcctactatg acatctatca acaggtcctt
 1681 cgaaaaggct ctgcctcagg cctcgcttgc gtttgcattcc agatcccacc ttttgcatt
 1741 gaacagacat ctgactatca aagccctgt gatgcaaaatg atctttcggtt ttccgcacaa
 1801 aacagtggct gcttatccag atcaactatgt gccaacatct cgagaggcct gcagttcatt
 1861 ctgacgccaat atgagttcag tgcccagact ttctacgcgc ttgccttac tatgcacatg
 1921 caagcaacac aggtgcaat tagtcaaaatc gatggctcactt ctttttttttttttttttt
 1981 attgcaaaacc aaataaaatc ggcacccaaag ccagcagccc caacaacttt acagatccca
 2041 cctcctctcc cagccatcaa gcatctgccc agggcagaaa ctctgcaccc taaccctgca
 2101 ggcttacagg aaagcatttgc tgacgtcacc acctgccttgc ttgcctccaa gggaaatgtt
 2161 caggttgcac agtcaatctt acccaaggac cgtttatgtt gggaaatgtt tgacatggga
 2221 ggagaaaactc ttt
 2281 gttgcaaaaacc ttt
 2341 agtggctcca gaggccgcca agattt
 2401 actgtatgtt ggggggttcc cgaagagaca gagacagaca cttttttttttttttttttttttt
 2461 ctt
 2521 cagagcattt gtaaggcagg agaaaatgttca gatggccctca gcttgcctca tgccaaactg
 2581 aaataaatt
 2641 ttt
 2701 aggcagttta taagccggtt accttt
 2761 aaatttcaag gtgcatt
 2821 ctt

//

[Disclaimer](#) | [Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

Oct 1 2003 15:02:47